

# MARINE BIOLOGY AND COASTAL SCIENCES (B.S.) (COMBINED B.S./M.S. MARINE BIOLOGY AND COASTAL SCIENCES)

A Combined Degree program enables undergraduate students to enroll in graduate courses in their senior year, which can be counted towards the completion of both their Bachelor's and Master's degree requirements.

The ability to take these "swing courses" allows students to earn both their Bachelor's and Master's degrees in a shortened period of time, typically within five years. Undergraduate students interested in this option can find more information regarding program requirements on the University's Combined Programs website (<https://www.montclair.edu/combined-programs/programs-of-study/>).

## Program Requirements

Students in this combined degree program must complete the requirements for:

Marine Biology and Coastal Sciences Major (B.S.) (<http://catalog.montclair.edu/programs/marine-biology-bs/>)

Marine Biology and Coastal Sciences (M.S.) (<http://catalog.montclair.edu/programs/marine-biology-ms/>)

## Graduate Swing Courses

A combined degree program allows students to complete 6-12 graduate credits ("graduate swing courses") while enrolled as an undergraduate. These courses count for both their bachelor and master's degrees. Graduate swing courses will count toward undergraduate free electives, unless noted otherwise.

The Graduate Swing Courses for this program:

Code	Title	Credits
AQUA 551	Advanced Aquatic Biological Processes	3
BIOL 570	Ecology	3
EAES 505	Environmental Geoscience	3
or EAES 526	Geochemistry	
<b>Total Credits</b>		<b>9</b>

## Recommended Roadmap to Degree(s)

This recommended five-year plan is provided as an outline for students to follow in order to complete their degree requirements within five years. This plan is a recommendation and students should only use it in consultation with their academic advisor.

Fifth year courses are taken at the graduate level, after matriculation into the graduate portion of this combined degree program.

### First Year

Fall	Credits	Spring	Credits
New Student Seminar		1 SEEDS: Effective Writing II	3

SEEDS: Effective Writing I	3	SEEDS: Interactive Communication	3
AMAT 120 or MATH 122 (Fulfills SEEDS: Quantitative Reasoning)	4	EAES 105	4
BIOL 113 (Fulfills SEEDS: Exploration 1 - Scientific Reasoning)	4	BIOL 213	4
SEEDS: Political and Civic Life	3		
		<b>15</b>	<b>14</b>

### Second Year

Fall	Credits	Spring	Credits
EAES 230		3 BIMS 220	4
CHEM 120		4 CHEM 121	4
PHYS 193		4 PHYS 194	4
STAT 230		3 STAT 231	1
SEEDS: World Language 1	2	3 SEEDS: World Language 2	3
		<b>17</b>	<b>16</b>

### Third Year

Fall	Credits	Spring	Credits
SEEDS: Exploration 2		3 SEEDS: Exploration 3	3
CHEM 230		3 EAES 322	3
CHEM 232		2 Major Elective	3
BIOL 351		4 Major Elective	3
Free Elective		3 Free Elective	3
		<b>15</b>	<b>15</b>

### Fourth Year

Fall	Credits	Spring	Credits
SEEDS: Exploration 4		3 Major Elective	3
BIOL 418		4 Major Elective	4
AQUA 551		3 BIOL 570	3
Free Elective		3 EAES 505 or 526	3
Free Elective		2	
		<b>15</b>	<b>13</b>

**Total Credits 120**